

## FCU2001 Modbus Fan Coil Unit Controller

The FCU 2001 Modbus fan coil solution from SyxthSense is the ideal solution for two or four pipe fan coil applications in offices, hotels, schools and zoned buildings. The controllers are easy to install and further integrate with a wide range of major BMS systems due to the open Modbus protocol. The control applications are easily adapted to suit by the connection of the various I/O options. This controller range features thermic valve control.

Further the end user can choose to select a very attractive and easy to use SY100 digital room interface with setpoint and fan speed control or can opt for a traditional room or extract air sensor.

The SY100 digital interface can be tailored to suit the aesthetics of the hotel room or office due to its unique changeable clip-on covers.

With integration into front check in software packages energy savings due to actually required room utilisation are quickly realised. The use of the occupancy, window, and door digital inputs will further drive down energy bills.

This 230Vac powered controller also features a bathroom or panic alarm input that can be used to call for assistance at the front desk. 128 controllers can be connected to a single Modbus LAN.



### Controller FCU 2001

Power supply	230V ( $\pm 10\%$ ) 50/60Hz, terminals 1-2; terminal 3 earth.
Power consumption	5VA (230Vac)
Communication	Modbus RS485. Terminal 11: + ; terminal 12: - ; terminal 10: shield
Digital inputs	Volt free contacts Terminals 18-19. For NC contacts. Occupancy sensors, in series. Terminals 20-21. For NO contact. Door switch or key card sensor. Terminals 22-23. For NC contact. Window switch. Terminals 24-25. Summer: closed contact. winter: open contact. Terminals 26-27. For NC contact. Bath alarm.
Analogue input	Terminals 13-14. Temperature sensor, NTC10KB.
Digital outputs	Output contacts: 10A 250Vac (resistive load), 6A 250Vac (inductive load). Terminals 28-31. NO, voltage free contact. Fan speed III. Terminals 29-31. NO, voltage free contact. Fan Speed II. Terminals 30-31. NO, voltage free contact. Fan Speed I. Terminals 32-33. NO, voltage free contact. Heating valve. Terminals 34-35. NO, voltage free contact. Cooling valve.
Display connection	Terminals 15-16: Tx/Rx; GND; +8V
Terminals	Wire section 2.5mm <sup>2</sup>

### Digital Display SY100

Controller connection	Terminals Tx/Rx; GND; +8V
Terminals	Wire section 2.5mm <sup>2</sup>

Wiring Diagram

